

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 May 2004 (06.05.2004)

PCT

(10) International Publication Number
WO 2004/037252 A1

- (51) International Patent Classification⁷: A61K 31/4406, 31/663, C07F 9/38, 9/58
- (21) International Application Number:
PCT/CZ2003/000056
- (22) International Filing Date: 21 October 2003 (21.10.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
PV 2002-3574 25 October 2002 (25.10.2002) CZ
- (71) Applicant (for all designated States except US): ZENTIVA, A.S. [CZ/CZ]; Dolni Mecholupy 130, 102 37 Praha 10 (CZ).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): RICHTER, Jindrich [CZ/CZ]; Hurka 255, 530 12 Pardubice (CZ). JIRMAN, Josef [CZ/CZ]; U hranic 14, 100 00 Praha 10 (CZ).
- (74) Agents: JIROTKOVA, Ivana et al.; Rott, Ruzicka & Guttman, Patent & Trademark & Law, Office, Nad Stolou 12, P.O. Box 94, 170 00 Praha 7 (CZ).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A NEW CRYSTALLINE FORM OF THE SODIUM SALT OF 3-PYRIDYL-1-HYDROXYETHYLIDENE-1,1-BISPHOSPHONIC ACID

(57) Abstract: A crystalline, hydrated form of the sodium salt of 3-pyridyl-1-hydroxyethylidene-1,1-bisphosphonic acid contains from 6.4 up to 22 weight % of sodium, based on the anhydrous substance, and 15 up to 23 weight % of crystalline water if the sodium content is lower than 7.5 weight %, or 4.5 up to 18 weight % if the sodium content is higher than 7.5 weight %.

WO 2004/037252 A1